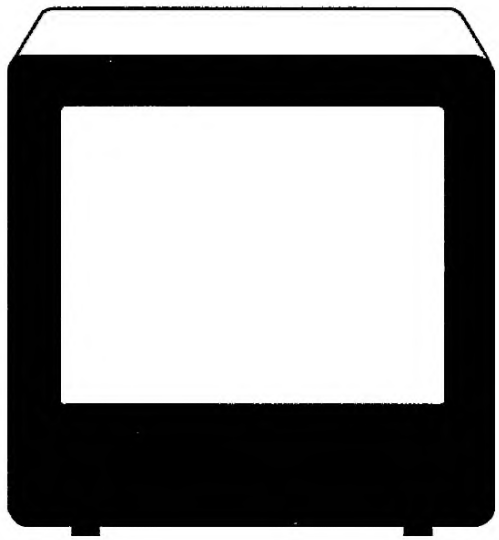
CONSUMER ELECTRONICS

PHILIPS



14GR2120
15GR2130

17GR2140
21GR2150

COLOUR TELEVISION
FARBFERNSEHER
TÉLÉVISEUR COULEUR
KLEURENTELEVISIE
TELEVISORE A COLORI
TELEVISOR EN COLOR
TELEVISÃO A CORES
FARVEFJERNSYN
FARGE-TV
FÄRG-TV
VÄRITELEVISIO
ΕΓΧΡΩΜΗ ΤΗΛΕΟΡΑΣΗ

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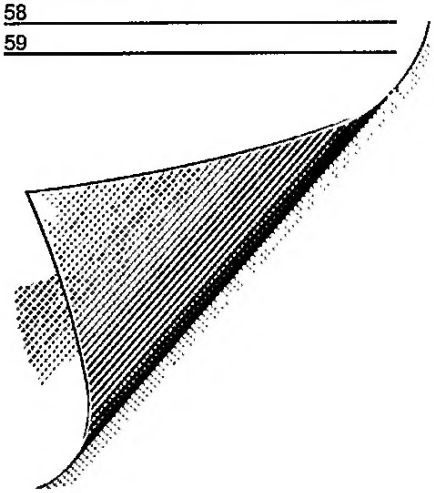
Write in pencil your TV station (or device) selections here:

No.	TV station/device	No.	TV station/device	No.	TV station/device
0		20		40	
1		21		41	
2		22		42	
3		23		43	
4		24		44	
5		25		45	
6		26		46	
7		27		47	
8		28		48	
9		29		49	
10		30		50	
11		31		51	
12		32		52	
13		33		53	
14		34		54	
15		35		55	
16		36		56	
17		37		57	
18		38		58	
19		39		59	



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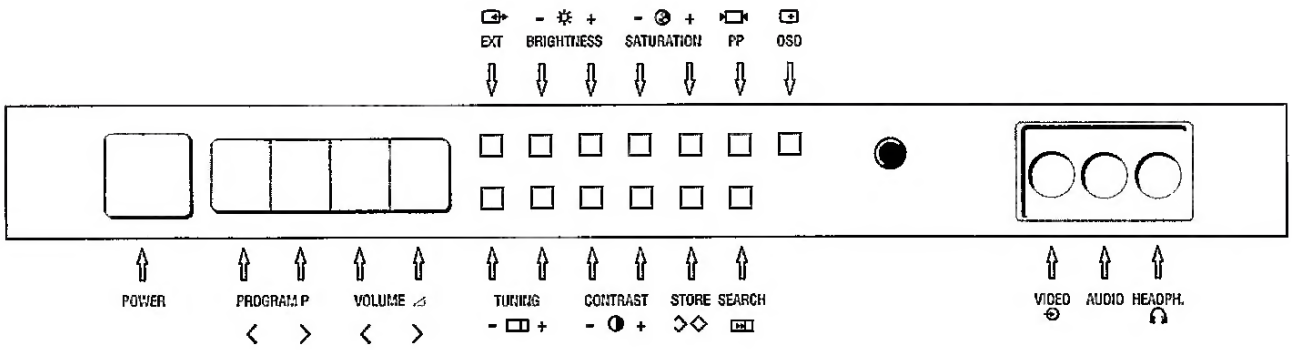

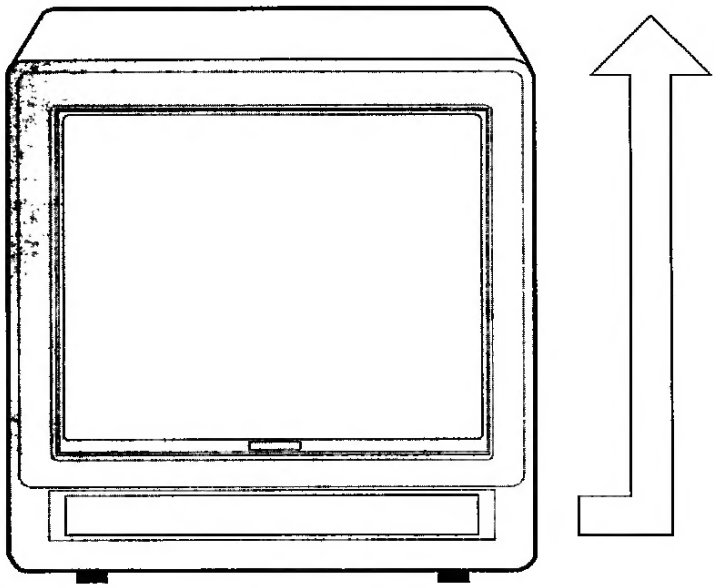

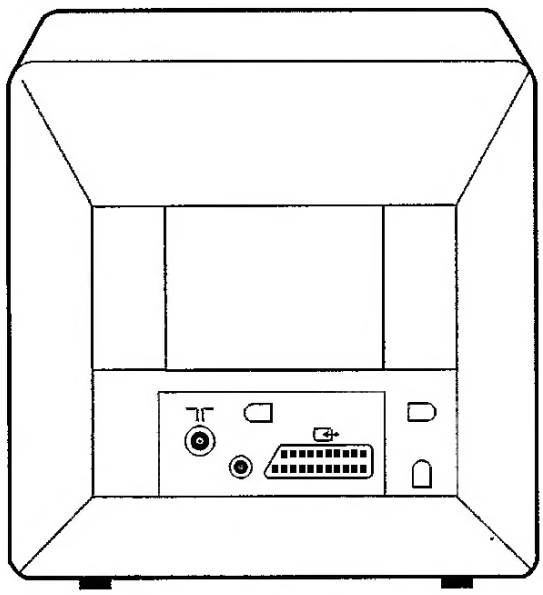

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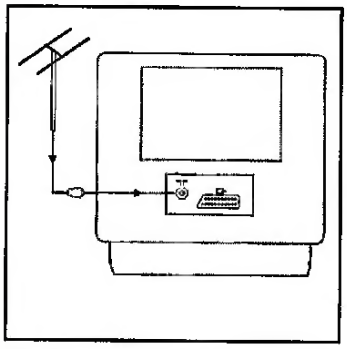
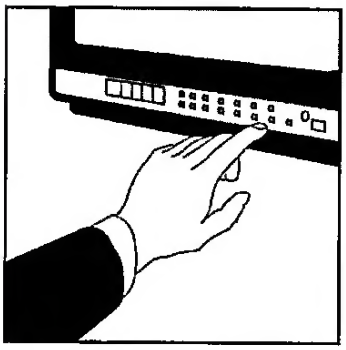
Installing and adjusting the TV — Page 3



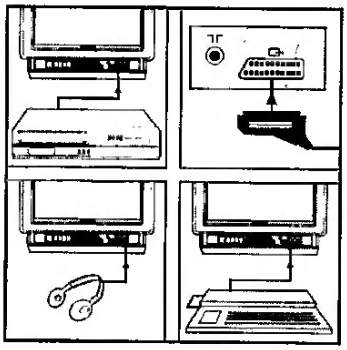
introduction
to install the TV
to connect the TV
to switch the TV on and off
to store TV stations on program numbers

Operating the TV — Page 4



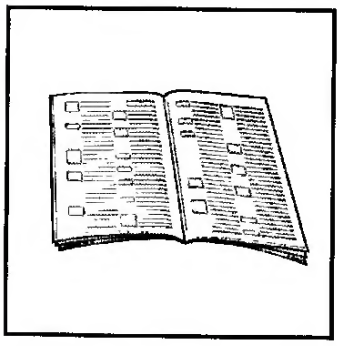
to select TV stations using program numbers
to change the picture and sound settings
to display picture and sound information

Additional features — Page 4 to 5



to connect a video recorder
to connect other devices
to connect headphones

General information — Page 6



to fine tune the picture quality
to store your own personal preference values
to clean the TV screen
fault indication

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Information for users in the UK

(Not applicable outside the UK)

Service for you

Your colour television has been designed and manufactured to the highest standards, and subject to rigorous testing. Provided it is properly operated and maintained it will perform well for meny years. However, in complex equipment components can sometimes fail.
The legal responsibility for meeting any in-guarantee service needs for your TV is with the dealer from whom you bought it. Our own Service Division – Philips Service – provides your dealer with comprehensive technical advice, and distributes approved spare parts from Service Centres throughout the country. If your dealer has no service facilities, he can arrange for any work to be carried out by e competent third party organisation.
In any event you may expect speedy attention to restore your TV to full working order without delay.

Free service for 12 months:
The dealer from whom the TV was purchased will arrange for any defect in manufacture or material to be rectified without charge for a period of 12 months from the date of initial consumer sales provided:
- reasonable evidence is supplied that the TV wes purchased within 12 months prior to the date of claim
- the defect is not due to use of the TV on an incorrect voltage or contrary to the Company's Operating Instructions or to accidental damage (whether in transit or otherwise); misuse; neglect; unauthorised or inexpert modification or repair.

The picture tube guarantee is administered by Mullard Limited. In addition to the customary 1 year free tube guarantee, Mullard will extend the guarantee period by e further 3 years for a nominal fee.
To register your tube guarantee please send:
a) your name and eddress;
b) your set's identity card (which will be returned to you);
c) a cheque/p.o. made out to 'Mullard Ltd' for £ 15.00 if you wish to extend your 1 year guarantee by a further 3 years;
to the following address:

Mullard Limited
Service Department
Free Post
Beddington Lane
Croydon CR9 9AU

Service after 12 months:
Continuing service after 12 months is available in the same way but the service will be chargeable.

These statements do not affect your statutory rights as a consumer.

If you have any question which your dealer cannot answer, please write to:

C.E. Consumer Relations Department
P.O. Box 298
420 London Road
Croydon CR9 3QR

All enquiries and claims can be handled more efficiently if accompenied by the Identity Card printed on the back cover of this booklet – this is provided for your reference and should be kept in a safe place.

Positioning the TV

For the best results, choose e position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 3 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures.
The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltege is different, consult your dealer.

Important
The wires in the mains lead are coloured according to the following code.
BLUE = NEUTRAL
BROWN = LIVE
If the mains plug (or edaptor) contains a fuse, the value of this fuse should be 3 Amp. Alternatively, if another type of plug (not fused), is used, the fuse at the distribution board should not be greater than 5 Amp.
If the colours of the wires in the mains lead do not correspond with the coloured markings identifying the terminels in your plug, proceed as follows:
The BLUE wire must be connected to the terminal marked 'N' or coloured black.
The BROWN wire must be connected to the terminal marked 'L' or coloured red. Before replacing the plug cover, make cortain that the cord grip is clemped over the sheath of the lead – not only over the two wires.

Connecting the loop aerial (if provided)

The loop aerial will give satisfactory reception under good signal conditions. Fix the loop aerial bracket at the mounting-socket on the back of the TV. Connect the aerial plug to the ⊓r socket on the TV.
If you want to use the TV in conjunction with other equipment which connects to the aerial socket (such as TV games, or a video camera) we recommend that these are connected via a combiner unit to avoid repeated connection end disconnection of the aerial plug.

General Points

Please take note of the section 'General Information' at the end of the English section in this booklet.

Interference
The Department of Trade and Industry operates a Radio Investigation Service to help TV licence holders improve reception of BBC and IBA programmes where these are being spoilt by interference. If your dealer cannot help, ask at a main Post Office for the booklet 'How to Improve Television and Radio Reception'.

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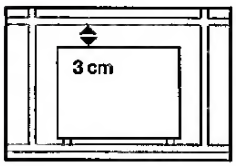
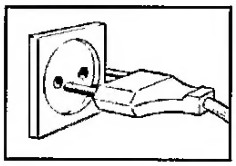
Installing the TV

Introduction
If you follow these operating instructions you will quickly learn how to adjust and operate all the functions of your new TV; but always read and perform the instructions in the sequence shown.

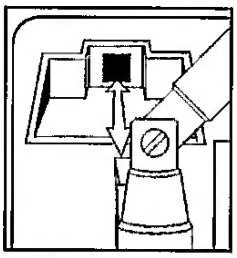


To install the TV
- Remove any packaging from the TV.
- Find the indoor aerial (if supplied) within the packaging.
- Place the TV on a solid base (e.g. a TV/video cabinet).
- Leave at least 3 cm around each side of the TV for ventilation.

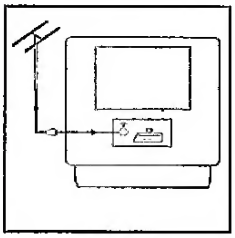
To connect the TV
IMPORTANT: The TV is only suitable for a mains voltage of 220/240 V ~ , 50 Hz (Consult your dealer if the mains supply is different).



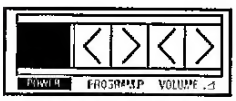
- Connect the TV to the mains supply socket.



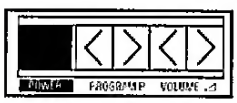
- Fix the indoor aerial (if supplied) to the mounting-socket at the top left of the rear panel of the TV (unless an outdoor aerial is to be used).



- Connect the aerial plug to the "ANT" socket at the back of the TV.



To switch the TV on
- Press the ⏻ power button on the front of the TV.
- If the GREEN colour is displayed on the lamp below the screen then the TV is switched on.

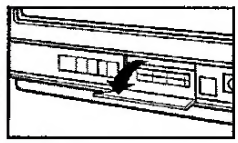


To switch the TV off
- Press the ⏻ power button on the front of the TV.

Adjusting the TV

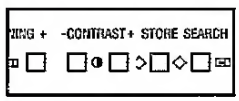
The control buttons needed to search for, then store, TV stations on program numbers are on the front of the TV.

To prevent accidental changes to the selected TV stations stored on program numbers, the store (◇ ◇) button must be pressed using a pencil.

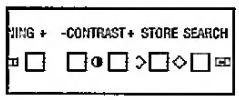


However on certain TV models the buttons you will need to adjust the TV are behind a control-panel flap; You must pull this control-panel flap forward to access the control buttons, and can close it once any required changes have been made. On these TV models the store (◇ ◇) button can be pressed using your finger.

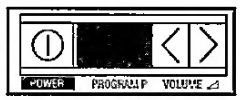
To store TV stations on program numbers
(Upto 60 TV stations can be stored on program numbers using the following method.)



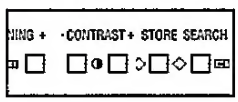
1. Press the ◇ ◇ button, so that information is displayed about the current program number.



2. Press the ⏭ button so that the TV **automatically** searches until a TV station is found and displayed on the screen. If you want to continue searching for a specific TV station then press the ⏭ button again.



3. Select the required program number (0 to 59) by pressing the ﴿P or P﴾ program button. The selected program number is displayed on the screen.



4. Press the ◇ ◇ button to store the selected TV station and program number. The program number information is now removed from the screen.

Repeat steps 1 to 4 until all the TV stations you require have been stored on program numbers.

Note: You can write your TV station selections in the table provided in the inside cover.

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Operating the TV

You can now operate your TV directly using the TV buttons.

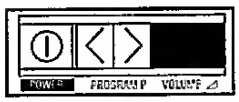
- Switch on the TV by pressing the ⏻ power button on the front of the TV.

To select TV stations using the TV buttons

- Press the 〉**P** program button to select a **higher** program number.
- Press the 〈 **P** progrem button to select a **lower** program number.

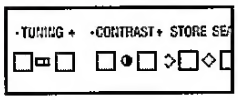
To change the picture and sound settings

(When the TV is first switched on the picture and sound settings are always at preferred or 'personal preference' values. Initially these values have been stored by the factory, but you can change them using the sound and picture buttons on the TV.)



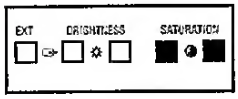
To change the volume (◿)

- Press the 〉button to increase the volume.
- Press the 〈button to decrease the volume.



To change the contrast of the picture (◑)

- Press the + button to increase the amount of contrast.
- Press the — button to decrease the amount of contrast.



To change the colour intensity (◍)

- Press the + button to increase the colour intensity.
- Press the — button to decrease the colour intensity.

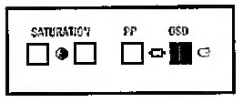
To change the brightness (☼)

- Press the + button to increase the brightness.
- Press the — buttton to decrease the brightness.

To return to the personal preference settings

- Press the PP button.

Note: If you refer to the General Information section you can also find how to store your own 'personal preference' values.



To display picture and sound information

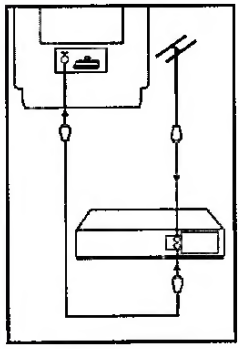
(The 'On-Screen-Display' allows you to see the information stored for a particuler program number and TV station.)

- Press the ⊡ button to displey the information on the screen.

If you now make changes to the picture and sound using the appropriate buttons, then a **moving** bar is displayed which represents these chenges es they are being made.

- Press the ⊡ button again to switch off the additionel information display.

Additional features



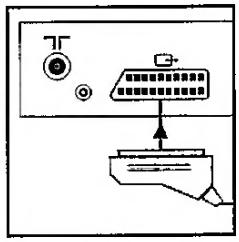
To connect a video recorder

(First you must refer to the operating manual supplied with your video recorder for connoction details.)

- Switch off the TV before connecting the video recorder.
- Connect the TV aerlel cable to the "I" input on the video recorder.
- Connect one side of the cable supplied with the video recorder to tho **TV** output of the video recorder and the other side of the cable to the "I" input of the TV.

Additionally,

- A video recorder or camcorder can be connected at the video/audio input sockets (cinch type) et the tront of the TV for 'playback' of tapes only.



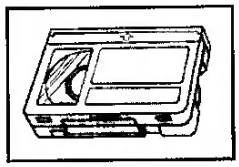
or,

- The video recorder can also bo connected at the Euroconnector socket at the back of the TV (a support-bracket is elso provided for the Euroconnector ceble on the back of the TV).

Note: To obtain an optimal sound and picture signal we advise that you do not connect the video/audio input sockets end the Euroconnector simultaneously.

To store the video recorder signal on a program number

(After you have connected the video recorder to the "I" socket you can store the video recorder signal on e program number.)

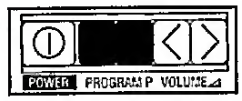


- Switch on the TV.

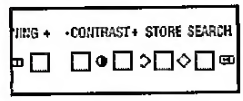
1. Insert a pre-recorded tepo in the video recorder, and press the 'PLAY" button on the video recorder.

2. Press the ◇ ◇ button so that tho program number information is displayed.

3. Press the ⏯ button so that the TV automatically searches for the video signal. If necessary press this button again until the video signal is located.



4. Select an available program numbor by pressing the 〈 **P** or 〉P program button on the TV.



5. Press the ◇ ◇ button to store the video signal on the selected program number.

6. Press the 'STOP' button on the video recorder.

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Additional features

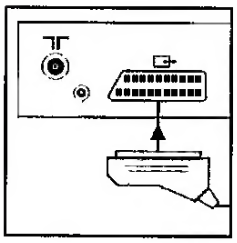
To select the program number for the video recorder signal

- Press the appropriate < P or > P program button (for the program number on which the video signal has been stored).

If the Euroconnector or video/audio input sockets are used then refer to the section 'to select the device signal'.

To connect other devices
e.g. computer, TV game, LaserVision player.
(First you must refer to the operating manual supplied with the device.)

either,
A device with video (CVBS) output can be connected to the video/audio input sockets on the front of the TV.



or,
A device with a Euroconnector can be connected to the Euroconnector socket at the back of the TV (a support bracket is provided for the Euroconnector cable on the back of the TV).

or,
A device can be connected to the ⊓ socket at the back of the TV

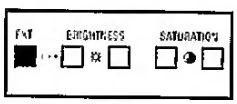
- Switch off the TV.
- Connect the device.

or,
Audio devices can be connected to the audio-output socket ('cinch' type) on the back of the TV.

To select the device signal

- Switch on the TV.

When the video/audio input sockets are used the device signal is available in external mode 1 (EXT 1):



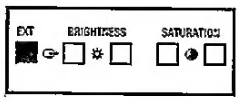
- Press the ⇥ button so that the device signal is received and EXT 1 is displayed on the screen.

When the Euroconnector is used then the device signal is available in either external mode 1 or 2 (EXT 1 or EXT 2): Certain devices connected to the Euroconnector socket will automatically switch the TV to receive the device signal.

If the TV does **not** automatically receive the device signal:

- Press the ⇥ button so that EXT 1 is displayed on the screen.

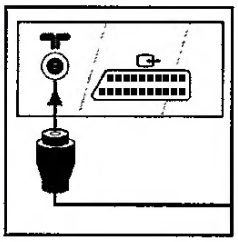
or,



- Press the ⇥ button again so that EXT 2 is displayed on the screen.

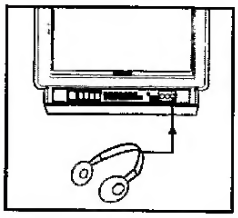
- To return to normal TV operation press the ⇥ button.

Note: It is not possible to search for a device signal using the ⏭ button when EXT 1 or EXT 2 mode is selected.



If the ⊓ socket is used then the signal must be stored on a program number before it can be selected (refer to the section 'to store the video recorder signal on a program number').

To connect headphones
(The headphones used must be 8 to 1000 ohm, and 6.3 mm in diameter.)



- Connect the headphones jack-plug to the 🎧 socket on the front of the TV.

Note: the loudspeaker is switched off automatically when the headphones are connected.

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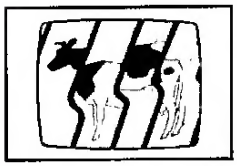
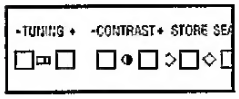
General information



To fine tune the picture quality
(The picture from a TV station or a device such as a video recorder may be affected by interference, e.g. from other strong signal sources.)

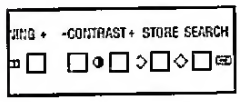
The picture quality may be improved using the following method:

1. Press the ◇ ◇ button to display the program number information.



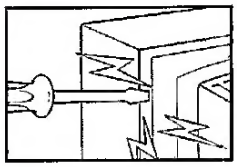
2. Press the — ▭ or + ▭ button, and release it immediately, so that the picture is fine tuned.

3. Press the ◇ ◇ button to store these changes.



To store your own personal preference (PP) values
- Press the ◇ ◇ button on the TV to display the program number information.
- Change the picture and sound settings (e.g. volume, contrast) using the TV controls.
- Press the ◇ ◇ button on the TV to store these changes. The program number information is now removed from the screen.

To clean the TV screen
- It is possible to clean the TV screen using a slightly damp chamois leather. Never use aggressive cleaning agents.



Fault indication
IMPORTANT: Never attempt to repair a broken TV yourself; always consult a skilled TV service engineer.

If the TV does not give the desired picture or sound quality after switching on then check that:
- the aerial is connected properly.
- all controls and buttons are selected correctly.
- the selected TV station is not 'closed-down'.
- the TV is not incorrectly switched to EXT 1 or EXT 2.

switch **off the TV if:**
- indication F0, F1, F2, F3, F4, F5, F6 or F7 is displayed on the screen.
- a bright white line is displayed across the screen.

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